Recombinant Human PSMA1, His-tagged

Cat. No. PSMA1-30394TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Proteasome 20S C2 (1-263 amino acids) with N terminal His tag; 286 aa, predicted MW 32kDa.
Species	Human
Source	E.coli
ProteinLength	263 amino acids
Description	The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a member of the peptidase T1A family, that is a 20S core alpha subunit. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Conjugation	HIS
Molecular Weight	32.000kDa inclusive of tags
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00Constituents:0.32% Tris HCl, 10% Glycerol, 0.03% DTT, 0.88% Sodium chloride
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MGSMFRNQYD NDVTVWSPQG RIHQIEYAME AVKQGSATVG LKSKTHAVLV ALKRAQSELA AHQKKILHVD NHIGISIAGL TADARLLCNF MRQECLDSRF VFDRPLPVSR LVSLIGSKTQ IPTQRYGRRP YGVGLLIAGY DDMGPHIFQT CPSANYFDCR AMSIGARSQS ARTYLERHMS EFMECNLNEL VKHGLRALRE TLPAEQDLTT KNVSIGIVGK DLEFTIYDDD DVSPFLEGLE ERPQRKAQPA QPADEPAEKA DEPMEH
Sequence Similarities	Belongs to the peptidase T1A family.

GENE INFORMATION

Gene Name	PSMA1 proteasome (prosome, macropain) subunit, alpha type, 1 [Homo sapiens]
Official Symbol	PSMA1
Synonyms	PSMA1; proteasome (prosome, macropain) subunit, alpha type, 1; proteasome subunit alpha type-1; HC2; MGC1667; MGC14542; MGC14575; MGC14751; MGC21459; MGC22853; MGC23915; NU; PROS30;
Gene ID	5682
mRNA Refseq	NM_001143937

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Protein Refseq	NP_001137409
MIM	602854
Uniprot ID	P25786
Chromosome Location	11p15.1
Pathway	APC/C-mediated degradation of cell cycle proteins, organism-specific biosystem; APC/C:Cdc20 mediated degradation of Securin, organism-specific biosystem; APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem; APC/C:Cdh1 mediated degradation of Cdc20 and other APC/C:Cdh1 targeted proteins in late mitosis/early G1, organism-specific biosystem; Activation of APC/C and APC/C:Cdc20 mediated degradation of mitotic proteins, organism-specific biosystem;
Function	RNA binding; peptidase activity; protein binding; threonine-type endopeptidase activity;

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